

**Amendments to Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

**Claim 1** (previously presented): A gene expression modulation system comprising:

- a) a first gene expression cassette that is capable of being expressed in a host cell comprising a polynucleotide encoding a first polypeptide comprising:
  - i) a DNA-binding domain that recognizes a response element associated with a gene whose expression is to be modulated;
  - ii) a ligand binding domain comprising a ligand binding domain from a nuclear receptor;
- b) a second gene expression cassette that is capable of being expressed in the host cell comprising a polynucleotide encoding a second polypeptide comprising:
  - i) a transactivation domain; and
  - ii) a ligand binding domain comprising a ligand binding domain from a nuclear receptor other than ultraspiracle (USP),

wherein the ligand binding domains from the first polypeptide and the second polypeptide are different.

**Claim 2** (original): The gene expression modulation system according to claim 1, further comprising a third gene expression cassette comprising:

- i) a response element to which the DNA-binding domain of the first polypeptide binds;
- ii) a promoter that is activated by the transactivation domain of the second polypeptide; and
- iii) the gene whose expression is to be modulated.

**Claim 3** (original): The gene expression modulation system according to claim 1, wherein the ligand binding domain of the first polypeptide is an ecdysone receptor polypeptide.

**Claim 4** (original): The gene expression modulation system according to claim 1, wherein the ligand binding domain of the second polypeptide is a retinoid X receptor polypeptide.

**Claim 5** (original): A gene expression modulation system comprising:

- a) a first gene expression cassette that is capable of being expressed in a host cell comprising a polynucleotide encoding a first polypeptide comprising:
  - i) a DNA-binding domain that recognizes a response element associated with a gene whose expression is to be modulated; and

- ii) a ligand binding domain comprising a ligand binding domain from an ecdysone receptor; and
- b) a second gene expression cassette that is capable of being expressed in the host cell comprising a polynucleotide encoding a second polypeptide comprising:
  - i) a transactivation domain; and
  - ii) a ligand binding domain comprising a ligand binding domain from a retinoid X receptor.

**Claim 6 (original):** The gene expression modulation system according to claim 5, further comprising a third gene expression cassette comprising:

- i) a response element to which the DNA-binding domain of the first polypeptide binds;
- ii) a promoter that is activated by the transactivation domain of the second polypeptide; and
- iii) the gene whose expression is to be modulated.

**Claim 7 (previously presented):** The gene expression modulation system according to claim 5, wherein the ligand binding domain of the first polypeptide is encoded by a polynucleotide comprising a nucleic acid sequence of SEQ ID NO: 3.

**Claim 8 (cancelled)**

**Claim 9 (cancelled)**

**Claim 10 (cancelled)**

**Claim 11 (original):** A gene expression modulation system comprising:

- a) a first gene expression cassette that is capable of being expressed in a host cell comprising a polynucleotide encoding a first polypeptide comprising:
  - i) a DNA-binding domain that recognizes a response element associated with a gene whose expression is to be modulated; and
  - ii) a ligand binding domain comprising a ligand binding domain from a retinoid X receptor; and
- b) a second gene expression cassette that is capable of being expressed in the host cell comprising a polynucleotide encoding a second polypeptide comprising:
  - i) a transactivation domain; and
  - ii) a ligand binding domain comprising a ligand binding domain from an ecdysone receptor.

**Claim 12 (original):** The gene expression modulation system according to claim 11, further comprising a third gene expression cassette comprising:

- i) a response element to which the DNA-binding domain of the first polypeptide binds;
- ii) a promoter that is activated by the transactivation domain of the second polypeptide; and
- iii) the gene whose expression is to be modulated.

**Claim 13** (cancelled)

**Claim 14** (cancelled)

**Claim 15** (previously presented): The gene expression modulation system according to claim 11, wherein the ligand binding domain of the second polypeptide is encoded by a polynucleotide comprising a nucleic acid sequence of SEQ ID NO: 3.

**Claim 16** (cancelled)

**Claim 17** (cancelled)

**Claim 18** (cancelled)

**Claim 19** (cancelled)

**Claim 20** (cancelled)

**Claim 21** (cancelled)

**Claim 22** (cancelled)

**Claim 23** (cancelled)

**Claim 24** (cancelled)

**Claim 25** (cancelled)

**Claim 26** (cancelled)

**Claim 27** (cancelled)

**Claim 28** (cancelled)

**Claim 29** (cancelled)

**Claim 30** (cancelled)

**Claim 31** (cancelled)

**Claim 32** (cancelled)

**Claim 33** (cancelled)

**Claim 34** (cancelled)

**Claim 35** (cancelled)

**Claim 36** (cancelled)